

Date: Tue, 3 May 94 04:30:19 PDT  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V94 #132  
To: Ham-Equip

Ham-Equip Digest                      Tue, 3 May 94                      Volume 94 : Issue 132

## Today's Topics:

(none)

## 220MHz Radio/Antenna Gear FOR SALE

Computer software

## Dual Band Mobile Recommendations?

FT-5100 features (was Re: Question about dual in-band rcv)

Has anyone received the Ten-Tec 2108 transverter yet?

Heil 4 or 5 element??

HTX-100 Mods (2 msgs)

HTX-202 help needed

Looking for RF trans/rec design book

## Mods for Yaesu FT416?

Question about dual in-band rcv

# Ramsey 20M SSB Rig

## Volvo Installation

Wanted: Kansas City Tracker/Tuner or similiar device

Yaesu FT-41R PL problem--read before buying (FT530 note at end)(LONG)

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>

Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>

Problems you can't solve otherwise to [brian@ucsd.edu](mailto:brian@ucsd.edu).

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: 2 May 94 15:16:27 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: (none)  
To: ham-equip@ucsd.edu

For Sale:

Kenwood TH-28A 2 meter HT transceiver that also receives 440 MHz, aircraft,

police, and fire bands. It comes with the soft case, standard 700 mAh battery pack, rubber duck antenna, strap, wall charger, box, schematics and all manuals. This radio and it is in MINT condition, not a scratch on it. Great radio! \$250.00

Josh N1PNN  
(617)566-2606

-----  
Date: 2 May 1994 16:37:00 -0500  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!torn!nott!bnrgate!corpgate!crchh327.bnr.ca!debaker@network.ucsd.edu  
Subject: 220MHz Radio/Antenna Gear FOR SALE  
To: ham-equip@ucsd.edu

Hello,

I have the following 220MHz gear for sale. Everything is barely used, and like new. I just don't have time for 220MHz...

1) 220MHz module for the Yeasu FT-736R	\$225	obo
2) Diamond F-142A 220MHz Base Station Antenna	\$75	obo
3) 220MHz Cushcraft 7 element yagi	\$50	obo
-> or above 3 items for \$300		

4) 220MHz module for the Kenwood TM-742A or TM-741A	\$225	obo
5) Larsen 220MHz Mag mount whip w/ 15ft coax	\$25	obo
-> or above 2 items for \$225		

Or all of the above for \$500

Please send email if interested.

+-----+  
| David E. Baker        Internet: debaker@bnr.ca (Richardson, TX, USA) |  
| Callsign: AB5PI        Amateur Packet: AB5PI@N5AUX.#DFW.TX.USA.NA |  
| My opinions do not necessarily reflect the opinions of my employer |  
+-----+

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Date: Mon, 2 May 94 20:00:15 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!csulb.edu!nic-nac.CSU.net!  
charnel.ecst.csuchico.edu!olivea!news.bu.edu!noc.near.net!usenet.elf.com!rpi!  
sarah!albnyvms.bitnet!SD2498@network.ucsd.edu  
Subject: Computer software  
To: ham-equip@ucsd.edu

is there any ftp site that has computer software for the technician exam, no code. It doesn't really matter if it doesn't include novice. Thanks

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+-----+
|Steve Disick                               State University at Albany |
|Internet: SD2498@albnyvms.bitnet          SUNY: School for the "gifted"|
|                                           |
|"I won't crash it, it's a beer truck!" <--Strange Brew                |
+-----+
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Date: 30 Apr 94 02:29:23 GMT  
From: agate!howland.reston.ans.net!cs.utexas.edu!swrinde!ihnp4.ucsd.edu!  
library.ucla.edu!csulb.edu!csus.edu!netcom.com!jkane@ucbvax.berkeley.edu  
Subject: Dual Band Mobile Recommendations?  
To: ham-equip@ucsd.edu

I am going to purchase a dual band ( 2m / 70cm ) mobile rig \_real soon now\_. I think that I have narrowed it down to either the Kenwood TM-732 or the Yaesu FT-5100. Anyone use either/both of these radios? Any other radio that I should consider?

Thanks and 73

John Arthur Kane, N5SLH, Network Design Analyst, Paranet, Inc, 214/239-5544

email: jkane@netcom.com  
kane@dfw.paranet.com

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John Arthur Kane, N5SLH, Network Design Analyst, Paranet, Inc, 214/239-5544

email: jkane@netcom.com  
kane@dfw.paranet.com

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Date: Mon, 02 May 1994 09:17:36 -0500  
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!news1.oakland.edu!  
news.nd.edu!nimtziici.edmedia.nd.edu!user@network.ucsd.edu  
Subject: FT-5100 features (was Re: Question about dual in-band rcv)  
To: ham-equip@ucsd.edu

In article <trb-290494102033@bexar.cray.com>, trb@cray.com (Tom Baltz) wrote:

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> Each bank has 2 upper and lower programable memories for band scanning
> (versus memory scanning). It also has 'Priority monitoring'...when enabled,
> will check your favorite frequency every 5 seconds for activity.
```

Does the 5100 have the ability to Priority Monitor a frequency while scanning a bank, or does the radio have to stay on one freq? The Yaesu FT-530 handheld will not scan the bank while Priority Monitoring is activated.

Rick Nimtz                      N9TJG            INTERNET: Nimtz.1@nd.edu

Chief Technician/LAN Administrator FAX: +1 219 631 8777

Educational Media Voice: +1 219 631 8783

University of Notre Dame, B16 DeBartolo Hall, Notre Dame, IN 46556 USA

"Meaningless! Meaningless!" Says the Teacher.

"Utterly meaningless! Everything is meaningless!" Eccl 1:2 (NIV)

Date: Mon, 2 May 1994 15:02:56 GMT  
From: netcomsv!netcom.com!dgf@decwrl.dec.com  
Subject: Has anyone received the Ten-Tec 2108 transverter yet?  
To: ham-equip@ucsd.edu

Just wondering if Ten-Tec was going to ship this beastie in time for the 6M  
E season... 73 Dave WB0GAZ dgf@netcom.com (Denver)

Date: 3 May 94 02:00:21 GMT  
From: agate!howland.reston.ans.net!gatech!udel!news.udel.edu!brahms.udel.edu!not-for-mail@ucbvax.berkeley.edu  
Subject: Heil 4 or 5 element??  
To: ham-equip@ucsd.edu

Do you prefer the Heil 4 or 5 element?

My primary interest in using a mike at all is HF contesting. I would assume that the 4 would be the ticket, but I have heard the 5 recommended too.

Rig in use at moment is TS940.

Thanks for your help.

Bob

--

Bob Penneys, WN3K Frankford Radio Club Internet: penneys@pecan.cns.udel.edu  
Work: Ham Radio Outlet (Delaware) (800) 644-4476; fax (302) 322-8808  
Mail at home: 12 East Mill Station Drive Newark, DE 19711 USA

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Date: 2 May 94 15:26:00 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HTX-100 Mods  
To: ham-equip@ucsd.edu

In digest 129 30-Apr-1994  
Somebody wrote: (NO TAG)

>I am thinking about moding a RS 10 M rig HTX-100 to another band. Has  
Anyone  
>else investigated how hard it would be to xchange it to 15M or 6 M ??

Don't bother. It would be less expensive to buy a commercial-  
built 6 M or 15M rig. You would end up "building a new rig" anyway.  
That rig was built so tight (FCC type acceptance to prevent modifications  
for 11M) that it would not be practical to modify it for any other bands.  
There are some mods to make it receive out of band, but I don't think you  
can make it transmit out of band.

Kevin (WB5RUE)  
muenzlerk@uthscsa.edu

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Date: Mon, 2 May 1994 16:42:23 GMT  
From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!csn!yuma!  
galen@network.ucsd.edu  
Subject: HTX-100 Mods  
To: ham-equip@ucsd.edu

In article <2DC53560@msmail.uthscsa.edu> MUENZLERK@uthscsa.EDU (Muenzler, Kevin)  
writes:

>>I am thinking about moding a RS 10 M rig HTX-100 to another band. Has  
>ANYone  
>>else investigated how hard it would be to xchange it to 15M or 6 M ??

>Don't bother. It would be less expensive to buy a commercial-  
>built 6 M or 15M rig. You would end up "building a new rig" anyway.

Use a transverter. Many available for 6m, cook your own for 15!

Galen, KF0YJ

I've modded my HR2600 for transverter use.

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Date: Mon, 2 May 1994 16:53:24 GMT

From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!darwin.sura.net!

rsg1.er.usgs.gov!junger@network.ucsd.edu

Subject: HTX-202 help needed

To: ham-equip@ucsd.edu

Recently I took advantage of Radio Shack's sale on this HT and finally got on VHF; it's fun. However, I have a couple of question on things I couldn't find in the manual.

1. If I am using external power from my car or a power supply in the shack, should I have the nicad battery pack removed from the radio?

2. What is a "normal" setting for the power-save feature; i.e., is the factory setting of 1/16 sec. about right?

Thanks & 73 -- John, W3G0I

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Date: 2 May 94 17:00:18 GMT

From: agate!dog.ee.lbl.gov!ihnp4.ucsd.edu!usc!math.ohio-state.edu!

howland.reston.ans.net!noc.near.net!usenet.elf.com!rpi!bossoj@ucbvax.berkeley.edu

Subject: Looking for RF trans/rec design book

To: ham-equip@ucsd.edu

I am looking for a good in-depth book that describes RF transmitter and receiver design. It should be useful for a wide range of signal frequencies, not just broadcast ranges (AM/FM/UHF/VHF).

I am working on project using RF transmission and I need something to help me better understand the theory behind circuit design in RF equipment.

Also, does anyone know of any single chip RF trans and receiver packages?

Thanks in advance!

--

Joe  
bossoj@rpi.edu

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Date: 2 May 1994 14:23:19 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!wupost!udel!news.sprintlink.net!  
hookup!news.kei.com!bloom-beacon.mit.edu!senator-bedfellow.mit.edu!space.mit.edu!  
crispy@network.ucsd.edu  
Subject: Mods for Yaesu FT416?  
To: ham-equip@ucsd.edu

Where can I find modification documentations/info for Yaesu FT416? I am looking to modify the rx and tx ranges. I looked in ftp.oakland.edu but could not find any.

Thanks,

\*\*\* Waiting and waiting for my ticket \*\*\*\*\*

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Christopher S. Pak  
Massachusetts Institute of Technology  
Center for Space Research  
37-487  
77 Massachusetts Ave.  
Cambridge, MA 02139  
Phone: (617)253-9342  
Fax: (617) 253-0861  
E-mail: crispy@space.mit.edu

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Date: 29 Apr 94 16:05:35 GMT  
From: agate!howland.reston.ans.net!vixen.cso.uiuc.edu!uchinews!cdsmaill!  
timbuk.cray.com!walter.cray.com!bexar.cray.com!user@uchvax.berkeley.edu  
Subject: Question about dual in-band rcv  
To: ham-equip@ucsd.edu

In article <1994Apr28.150859.4666@rsg1.er.usgs.gov>, bodoh@dgg.cr.usgs.gov  
(Tom Bodoh) wrote:

> Radios such as the Yaesu ft-5100 and Kenwood tm-732 boast of dual in-band  
> receive. Does this mean that I can program the memory bank for the UHF  
> side to hold VHF and UHF frequencies? I would like to have a rig that I  
> can have the VHF half scan the local repeater frequencies (mostly 2M) while  
> the UHF half scans public service VHF/UHF frequencies. Do either of these

> radios allow you to program VHF frequencies on the UHF side memories or is  
> the dual-watch feature for the VFO only? Thanks...

>

Can't speak for the TM732, but I've had a ft5100 for about a month now  
(love it!)..

Memories are arranged in 2 banks for each side, each bank containing 20  
memories, for a total of 40 VHF and 40 UHF. This layout makes it possible  
to scan 2 seperate banks in one band. Very handy if you monitor 1 favorite  
repeater continuously, but want to scan other repeaters in the same band.  
And having 2 banks per band is great if you regularly drive between 2  
cities.

A scan will only go through one bank (20 memories). Very very fast scan  
rate. Push 2 buttons to go to the other bank in the same band. Of course,  
both VHF and UHF can be scanned simultaneously, but it is scanning 1 bank  
on each band.

Each bank has 2 upper and lower programable memories for band scanning  
(versus memory scanning). It also has 'Priority monitoring'...when enabled,  
will check your favorite frequency every 5 seconds for activity. And  
another feature is 'Call frequency'...programable frequencies you can  
access by a button. Then theres 'Alternating band memory scan'....This  
will scan 1 bank in each band by swapping the bands continuously between  
main and sub-band positions.

All rather confusing...and takes a while to figure out (let alone  
program!). The simple answer to your question is no..you can't store VHF  
in UHF banks or vice/versa. But with 4 banks, priority monitoring, 90 some  
memories, and alternate band scan you have lots of options and different  
ways to accomplish what your're looking for.

- Tom Baltz  
trb@cray.com

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Date: 30 Apr 1994 12:24:31 GMT  
From: ihnp4.ucsd.edu!agate!doc.ic.ac.uk!bright.ecs.soton.ac.uk!  
pdh@network.ucsd.edu  
Subject: Ramsey 20M SSB Rig  
To: ham-equip@ucsd.edu

In <gregCotsyr.Hrv@netcom.com> greg@netcom.com (Greg Bullough) writes:

>Naturally, one wonders whether producing 10 watts of SSB on 20 Meters is  
>\*worth\* an investment of \$350 and the time required a-building, but that's



>soley a personal decision.

As a user of 5 watts of SSB on 20 Metres I can assure you it's worth something !

--

[] Peter Harris, Optoelectronics Network Supervisor, Southampton University []  
"Sir, you will either die on the gallows or of the pox !"  
"That, my Lord, depends on whether I embrace your principles or your mistress"  
John Wilkes to The Earl of Sandwich, Parliament, November 1763

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Date: Mon, 2 May 1994 08:41:46 EDT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!noc.near.net!  
saturn.caps.maine.edu!maine.maine.edu!wjs@network.ucsd.edu  
Subject: Volvo Installation  
To: ham-equip@ucsd.edu

Has anyone installed a 2-meter/440 rig in a Volvo 240 Station Wagon?  
Just bought a '93 and there's not much room. Interested in suggestions  
on placement of rig and antenna.

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Date: 2 May 1994 09:30:46 -0500  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!pipex!bnr.co.uk!corpgate!  
crchh327.bnr.ca!debaker@network.ucsd.edu  
Subject: Wanted: Kansas City Tracker/Tuner or similiar device  
To: ham-equip@ucsd.edu

Hello,

I am looking for information about the Kansas City Tracker/Tuner or  
any similiar device. If you know where to get these, or have one for  
sale, please send email.

Thanks,

+-----+  
| David E. Baker        Internet: debaker@bnr.ca (Richardson, TX, USA) |  
| Callsign: AB5PI        Amateur Packet: AB5PI@N5AUX.#DFW.TX.USA.NA |  
| My opinions do not necessarily reflect the opinions of my employer |  
+-----+

-----  
Date: 2 May 94 18:48:07 GMT

From: dog.ee.lbl.gov!agate!kabuki.EECS.Berkeley.EDU!kennish@ucbvax.berkeley.edu  
Subject: Yaesu FT-41R PL problem--read before buying (FT530 note at end)(LONG)  
To: ham-equip@ucsd.edu

This note is being provided as a service to the amateur community. It is not intended to endorse or dis-endorse this product, but rather to educate the community to a problem, for which a solution exists.

\*\*\*\*\*

The Yaesu FT-41R (and perhaps it's sister 11R) has a problem with the PL (CTCSS for you Motorola lawyers) tone frequencies. If you do NOT buy the optional FTS-26 CTCSS DEcode (tone squelch) board, the PL tone is generated by the microprocessor itself, rather than a dedicated PL tone chip (MX265). As a result, the PL tone generated can be slightly off, to a degree to make certain reed-type decoders used on some repeaters go nuts. This makes repeater use difficult, if not impossible. If you do go out and buy the optional FTS-26 board, the tones are generated by the board, and this should not be a problem.

It turns out that the PL tone is too high in pitch, and this difference is audible at the 250.3 PL. Yaesu's fix, according to Yaesu Tech Bulletin 9420 is to increase the size of the capacitor on the microprocessor crystal to pull the frequency down, thereby lowering the PL. The mod specifically calls for C2018 to be changed from 33 pF to 39 pF.

I have not done this yet, as I am awaiting the part from Yaesu. This mod is built into the factory beginning with lot #12. Units prior to this will need to be mod'ed or you may just be lucky. To determine your lot number, look at your serial number. the lot number is the two digits immediately following the letter. (i.e. a S/N of 3M078626 would indicate a lot #07)

If you are contemplating buying a unit at a retailer, check the serial number -- if it is prior to lot #12, test the unit on a few repeaters and see if your voice drops in and out. Newer repeaters with electronic decode tend not to be as sensitive to PL frequency mismatch as are old mechanical reed style decoders.

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Also, to FT-530 owners:

There is an existing INTERMOD fix for the 530. Now, before you all go and jump to put your units in the mail, let me tell you

what this mod does.

The mod entails changing the first IF frequency of both receivers. The VHF frequency moves from 15.25 to 17.25 MHz, and the UHF frequency moves from 47.225 to 44.775 MHz.

What this buys you:

If your INTERMOD problem results from two strong signals that are mixing in the front end to produce a signal at the frequency you are trying to receive, this mod will do NOTHING for you. (e.g. you are listening to 446.00 MHz, and two signals at 452.00 and 458.00 MHz mix to produce a tone at 446.00 MHz, then you are out of luck).

However, if the problem results from two strong signal that are mixing to produce the IF frequency, then this may help.

Alternatively, if the problem is really IMAGE response (you are picking up a station that is 2xIF away from your desired station), then this MOD will help.

Think carefully and investigate thoroughly what your problem really is before you send the unit in. The mod does nothing to affect receive range, nor does it do anything to change RF desense, overload or other nastiness, just changes the image response frequency...

A hint in diagnosing your problem... The first IF frequency is not dependent on the frequency tuned, but rather which receiver is used. The left receiver uses the VHF IF, while the right receiver uses the UHF IF. Tuning a UHF frequency in the VHF side uses the VHF IF, and vice versa.

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Sorry this post got so long, but info is info.

-Ken

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End of Ham-Equip Digest V94 #132

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